

STN Columbus

* * * * * * * * * * Welcome to STN International * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 CA/CAplus records now contain indexing from 1907 to the present
NEWS 4 Jul 15 Data from 1960-1976 added to RDISCLOSURE
NEWS 5 Jul 21 Identification of STN records implemented
NEWS 6 Jul 21 Polymer class term count added to REGISTRY
NEWS 7 Jul 22 INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS 8 AUG 05 New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS 9 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 10 AUG 15 PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS 11 AUG 15 PCTGEN: one FREE connect hour, per account, in September 2003
NEWS 12 AUG 15 RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS 13 AUG 15 TEMA: one FREE connect hour, per account, in September 2003
NEWS 14 AUG 18 Data available for download as a PDF in RDISCLOSURE
NEWS 15 AUG 18 Simultaneous left and right truncation added to PASCAL
NEWS 16 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right Truncation
NEWS 17 AUG 18 Simultaneous left and right truncation added to ANABSTR
NEWS 18 SEP 22 DIPPR file reloaded
NEWS 19 SEP 25 INPADOC: Legal Status data to be reloaded

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 18:43:16 ON 26 SEP 2003

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| COST IN U.S. DOLLARS | ENTRY | SESSION |
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FILE 'REGISTRY' ENTERED AT 18:43:31 ON 26 SEP 2003

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 25 SEP 2003 HIGHEST RN 593231-54-0
DICTIONARY FILE UPDATES: 25 SEP 2003 HIGHEST RN 593231-54-0

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

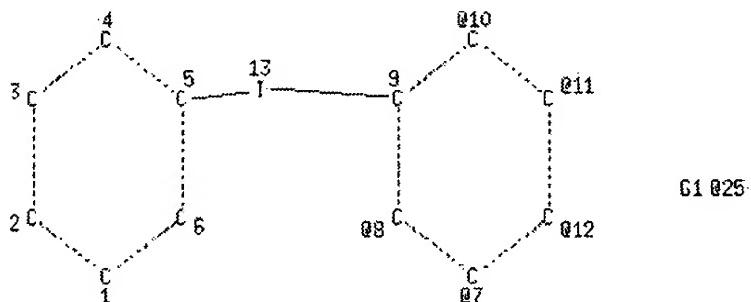
Please note that search-term pricing does apply when
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
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in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

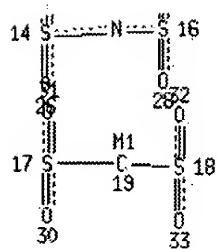
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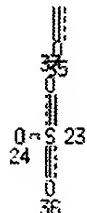


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STN Columbus



Page 2-A



Page 3-A

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NUMBER OF NODES IS 37

STEREO ATTRIBUTES: NONE

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FILE COVERS 1907 - 26 Sep 2003 VOL 139 ISS 14
FILE LAST UPDATED: 25 Sep 2003 (20030925/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4 5 L3

=> d fbib ab hitstr 1-5

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
Full Text

AN 2002:107841 CAPLUS
DN 136:175464
TI Synthesis of zwitterionic iodonium compounds for resist compositions transmitting light in low UV portion of spectrum
IN Desmarreau, Darryl; Montanari, Vitorio; Thomas, Brian H.
PA USA
SO U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO
DT Patent
LA English
PAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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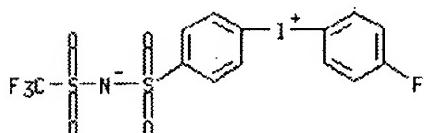
OS MARPAT 136:175464
AB Disclosed are the methods of synthetic prepn. of zwitterionic iodonium compds. for resist compns. transmitting light in low UV portion of spectrum. Photoresist compns., or photoacids, are used in etching circuit pathways on the surface of microelectronic components. Iodonium compds. generate a strong acid under short wavelength irradn., which is capable of etching the polymeric surface coating of a silicon wafer. The strong acid is the conjugate acid of the counter anion. Larger counterions generate acids that diffuse to a lesser extent in the polymer resist matrix, producing better image resoln. Given the particular anion, the solv. of its diaryl iodonium salts will depend upon which arom. rings are used on the iodonium mol. A zwitterionic structure of the iodonium mol., having both pos. and neg. charges on the same mol. species, can be used as photoacid compn. in the photoresist step of microchip manufg.

IT 396733-88-3P 396733-91-8P 396733-94-1P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(iodonium zwitterion; synthesis of zwitterionic iodonium compds. for resist compns. transmitting light in low UV portion of spectrum)

RN 396733-88-3 CAPLUS

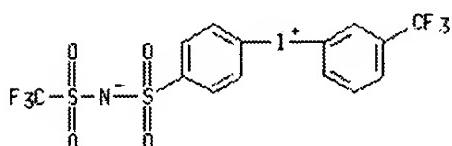
STN Columbus

CN Iodonium, (4-fluorophenyl) [4-[[[trifluoromethyl)sulfonyl]amino]sulfonyl]phenyl-, inner salt (9CI) (CA INDEX NAME)



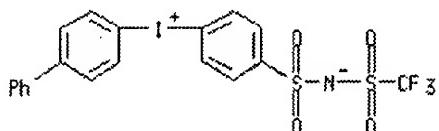
RN 396733-91-8 CAPLUS

CN Iodonium, [3-(trifluoromethyl)phenyl] [4-[[[trifluoromethyl)sulfonyl]amino]sulfonyl]phenyl-, inner salt (9CI) (CA INDEX NAME)



RN 396733-94-1 CAPLUS

CN Iodonium, [1,1'-biphenyl]-4-yl [4-[[[trifluoromethyl)sulfonyl]amino]sulfonyl]phenyl-, inner salt (9CI) (CA INDEX NAME)

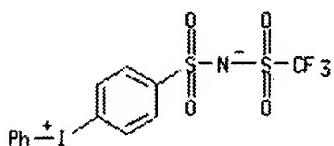


IT 396733-77-0DP, crystd. with DMSO

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(synthesis of zwitterionic iodonium compds. for resist compns.
transmitting light in low UV portion of spectrum)

RN 396733-77-0 CAPLUS

CN Iodonium, phenyl[4-[[[trifluoromethyl)sulfonyl]amino]sulfonyl]phenyl-, inner salt (9CI) (CA INDEX NAME)



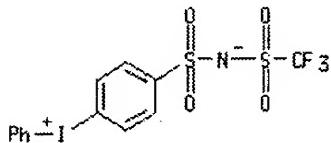
IT 396733-77-0

RL: TEM (Technical or engineered material use); USES (Uses)
(synthesis of zwitterionic iodonium compds. for resist compns.
transmitting light in low UV portion of spectrum)

RN 396733-77-0 CAPLUS

STN Columbus

CN Iodonium, phenyl[4-[[[(trifluoromethyl)sulfonyl]amino]sulfonyl]phenyl]-, inner salt (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 1998:464361 CAPLUS

DN 129:109417

TI Salts of malononitrile-based anions for use as ionic conductors

IN Armand, Michel; Choquette, Yves; Gauthier, Michel; Michot, Christophe
PA Centre National de la Recherche Scientifique (CNRS), Fr.; Hydro-Quebec

SO Eur. Pat. Appl., 49 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 4

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PATENT FAMILY INFORMATION:

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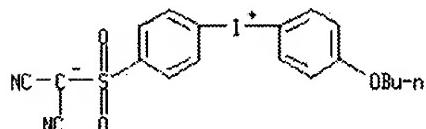
AB The title compds., of specified structure and also useful as polymn. catalysts, colorants, etc., are prep'd. Stirring 10 mmol each stearoyl chloride and malononitrile K salt in THF at room temp. for 24 h, filtering, and stirring the filtrate with 500 mg Li₂CO₃ for 24 h gave >97% C₁₇H₃₅COC(CN)₂- Li⁺. Use of the products in the above applications is exemplified.

IT 210043-63-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(salts of malononitrile-based anions for use as ionic conductors)

RN 210043-63-3 CAPLUS

CN Iodonium, (4-butoxyphenyl)[4-[(dicyanomethyl)sulfonyl]phenyl]-, inner salt (9CI) (CA INDEX NAME)



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 1998:464360 CAPLUS

DN 129:122975

TI Salts of perfluorinated sulfonamides or sulfinamides and their use as ionic conductors and as catalysts

IN Armand, Michel; Choquette, Yves; Gauthier, Michel; Michot, Christophe
PA Centre National de la Recherche Scientifique (CNRS), Fr.; Hydro-Quebec

SO Eur. Pat. Appl., 65 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 4

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RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
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W: CA, JP, US | |

STN Columbus

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| JP 2000508346 | T2 | 20000704 | WO 1997-CA1012 W 19971230
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| | | | CA 1997-2199231A 19970305 |
| | | | WO 1997-CA1013 W 19971230 |
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| | | | CA 1997-2199231A 19970305 |
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| | | | WO 1997-CA1013 A 19971230 |
| | | | US 1998-125797 A119981203 |
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| | | | CA 1997-2199231A 19970305 |
| | | | WO 1997-CA1010 W 19971230 |
| | | | US 1998-101810 A319981119 |
| | | | US 2000-638793 A120000809 |

OS MARPAT 129:122975

AB The salts comprise a cation and R₁SO_xN-Z in amts. to balance the pos. and neg. charges, where R₁ is halo, perhaloalkyl (optionally interrupted by O, S, or NH) or -alkaryl, R₂CF₂, R₂CF₂CF₂, R₂CF₂CF(CF₃), or CF₃CFR₂; R₂ is an org. radical which is not perhalogenated; Z is an electron-withdrawing group, which may be the residue of a polymer or may be a polyvalent group attached to other N-SO_xR₁ moieties; and x = 1 or 2. Thus, a mixt. of 40 mmol acrylonitrile and 60 mmol 4-CH₂:CHC₆H₄SO₂N-SO₂CF₃ Li⁺ was copolymd. in 82% yield by use of 1,1'-azobis(cyclohexanecarbonitrile) in THF, and the copolymer was used at 20% concn. as a binder in both the carbon anode and the carbon-LiNiO₂ cathode of a battery contg. a gelled electrolyte.

IT 210227-59-1P

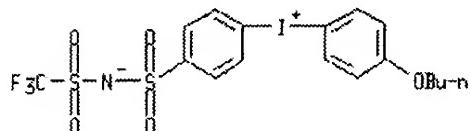
RL: SPN (Synthetic preparation); PREP (Preparation)

STN Columbus

(salts of perfluorinated sulfonamides or sulfinamides for use as ionic conductors and as catalysts)

RN 210227-59-1 CAPLUS

CN Iodonium, (4-butoxyphenyl)[4-[[[trifluoromethyl]sulfonyl]amino]sulfonyl]phenyl]-, inner salt (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 1995:804536 CAPLUS

DN 123:200786

TI Photo-curable resin compositions

IN Hasegawa, Junko; Ebisawa, Makoto

PA Japan Carlit Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------|------|----------|-----------------|----------|
| PI | JP 07179511 | A2 | 19950718 | JP 1993-345712 | 19931222 |
| | | | | JP 1993-345712 | 19931222 |

OS MARPAT 123:200786

AB Resin compns. useful as coating, adhesive, and sealant are photocurable at room temp. and are characterized by contg. ≥2 di-Ph iodonium salts as photo polymn. initiator, where Ph groups can be substituted by various groups, and cationically polymerizable resins including ≥1 epoxy resin. A compn. contg. 100 parts bisphenol A-based epoxy resin and 1 part of a mixt. of diphenyliodonium hexafluorophosphate, diphenyliodonium hexafluoroantimonate, diphenyliodonium hexafluoroarsenate, 4,4'-dimethyldiphenyliodonium hexafluoroantimonate, and 4,4'-dibutyldiphenyliodonium hexafluoroantimonate was cured at room temp. in 1.2 s upon UV irradn.

IT 167998-20-1

RL: CAT (Catalyst use); POF (Polymer in formulation); USES (Uses)
(photo-curable resin compns.)

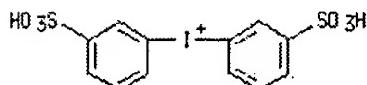
RN 167998-20-1 CAPLUS

CN Iodonium, bis(3-sulfophenyl)-, perchlorate (9CI) (CA INDEX NAME)

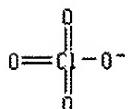
CM 1

CRN 167998-19-8

CMF C12 H10 I O6 S2



CM 2

CRN 14797-73-0
CMF Cl O4

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 1974:505625 CAPLUS

DN 81:105625

TI Preparation and properties of arylphosphonic and diarylphosphinic acids containing polyvalent iodine

AU Freedman, Leon D.; DeMott, Roy P.

CS Dep. Chem., North Carolina State Univ., Raleigh, NC, USA

SO Phosphorus and the Related Group V Elements (1974), 3(5-6), 277-81

CODEN: PHUSBV; ISSN: 0369-9722

DT Journal

LA English

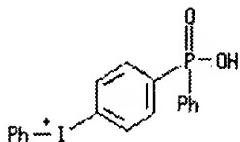
AB The o- and p-isomers of iodophenylphosphonic and (iodophenyl)phenylphosphinic acids were oxidized to the corresponding iodoso compds. The o-iodoso compds. probably have structure (I, R = OH, Ph). The p-iodoso compds. probably have the zwitterionic structures p-HOI+C6H4P(O)(O-)Ph (II) and p-HOI+C6H4PO3H- was converted to the iodonium bromide p-Phi+C6H4P(O)(OH)Ph Br- and its betaine p-Phi+C6H4P(O)-(O-)Ph. Attempts to convert I (R = Ph) to a cyclic iodonium compd. of type III (X = halo) were unsuccessful.

IT 54185-76-1P 54185-77-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 54185-76-1 CAPLUS

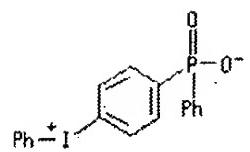
CN Iodonium, [4-(hydroxyphenylphosphinyl)phenyl]phenyl-, bromide (9CI) (CA INDEX NAME)



Br-

RN 54185-77-2 CAPLUS

CN Iodonium, [4-(hydroxyphenylphosphinyl)phenyl]phenyl-, inner salt (9CI) (CA INDEX NAME)



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